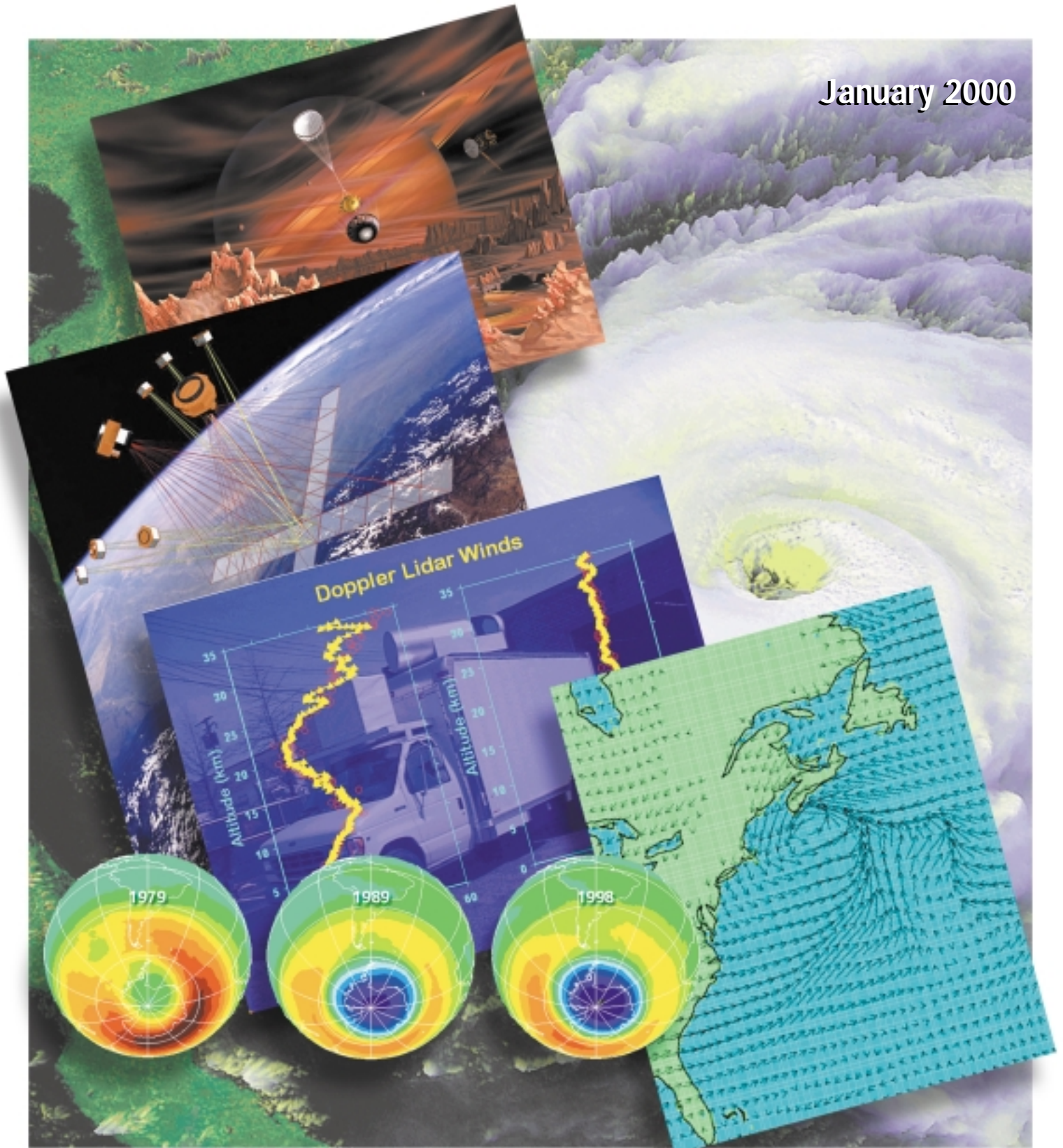


Laboratory for Atmospheres

PHILOSOPHY, ORGANIZATION, MAJOR ACTIVITIES, AND 1999 HIGHLIGHTS

January 2000



National Aeronautics and Space Administration, Goddard Space Flight Center, Greenbelt, MD 20771

NASA GODDARD SPACE FLIGHT CENTER

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1 Hurricane Fran as rendered on NASA computers using data captured by NOAA's GOES-8 satellite on September 4, 1996.

2 The Cassini Mission to Saturn and its moon, Titan.

3 The Leonardo-BRDF formation of microsatellites viewing the Himalayas and the Indian subcontinent.

4 The Goddard Lidar Observatory for Winds (GLOW), a mobile Doppler lidar system designed for field measurement of wind profiles from the surface into the stratosphere. A profile of wind speed and direction appears in the foreground, along with wind data obtained from a balloon sonde.

5 An example of the very realistic patterns of cyclones and fronts that appear in surface wind fields generated by the 1-degree latitude by 1-degree longitude version of the GEOS global atmospheric model.

6 October average total column ozone as measured by the Total Ozone Mapping Spectrometer (TOMS). Red and yellow indicate high overhead column amounts. Blue and purple show low values. The Antarctic Ozone hole appears as the very low column amounts in the two later years.

Cover designed by Bill Welsh